Figure 1

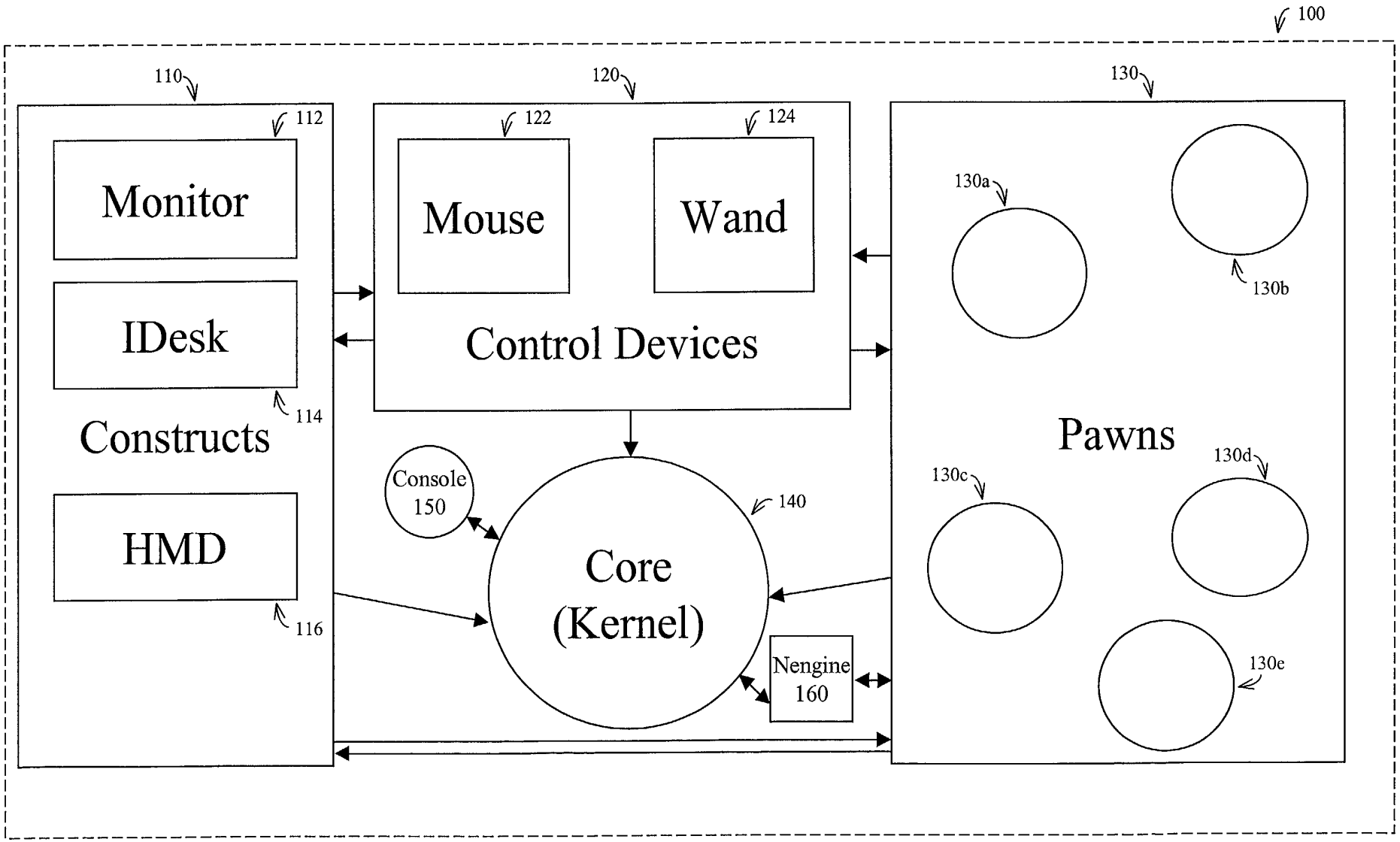

100
110
112
Monitor
IDesk
114
Constructs
HMD
116
120
122
124
Mouse
Wand
Control Devices
Console
150
140
Core
(Kernel)
Nengine
160
130
130a
130b
Pawns
130c
130d
130e

Figure 2a

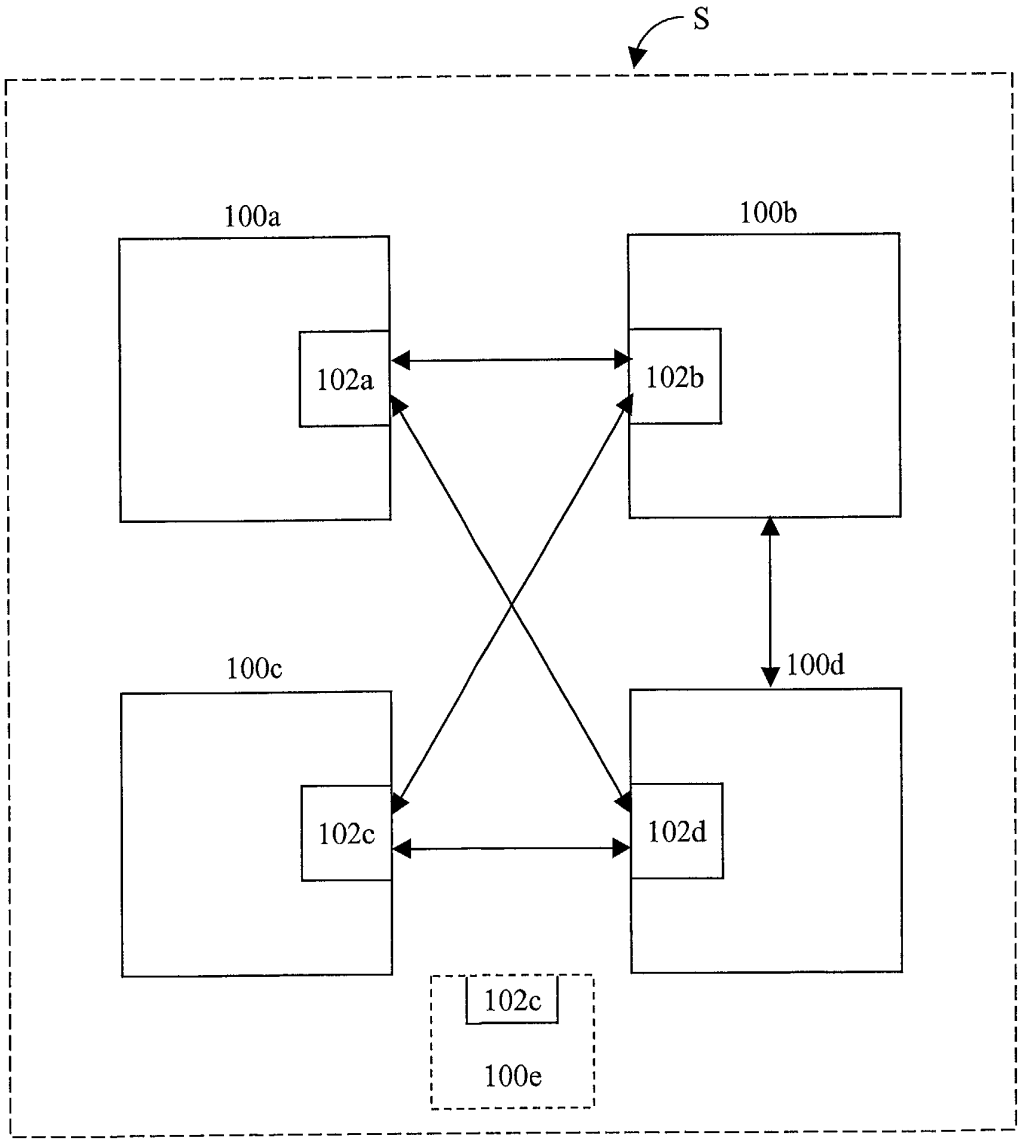


Figure 2b

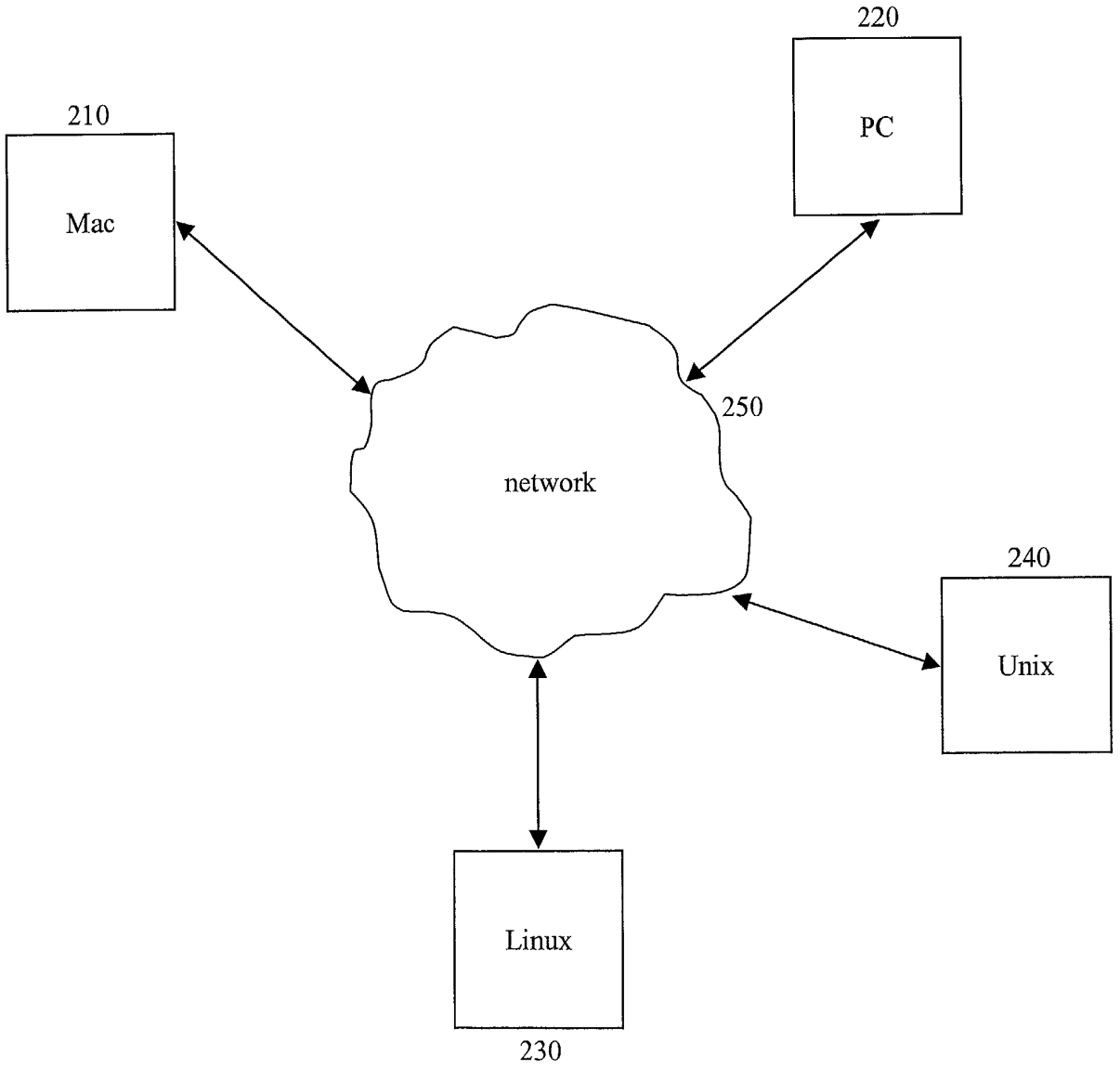
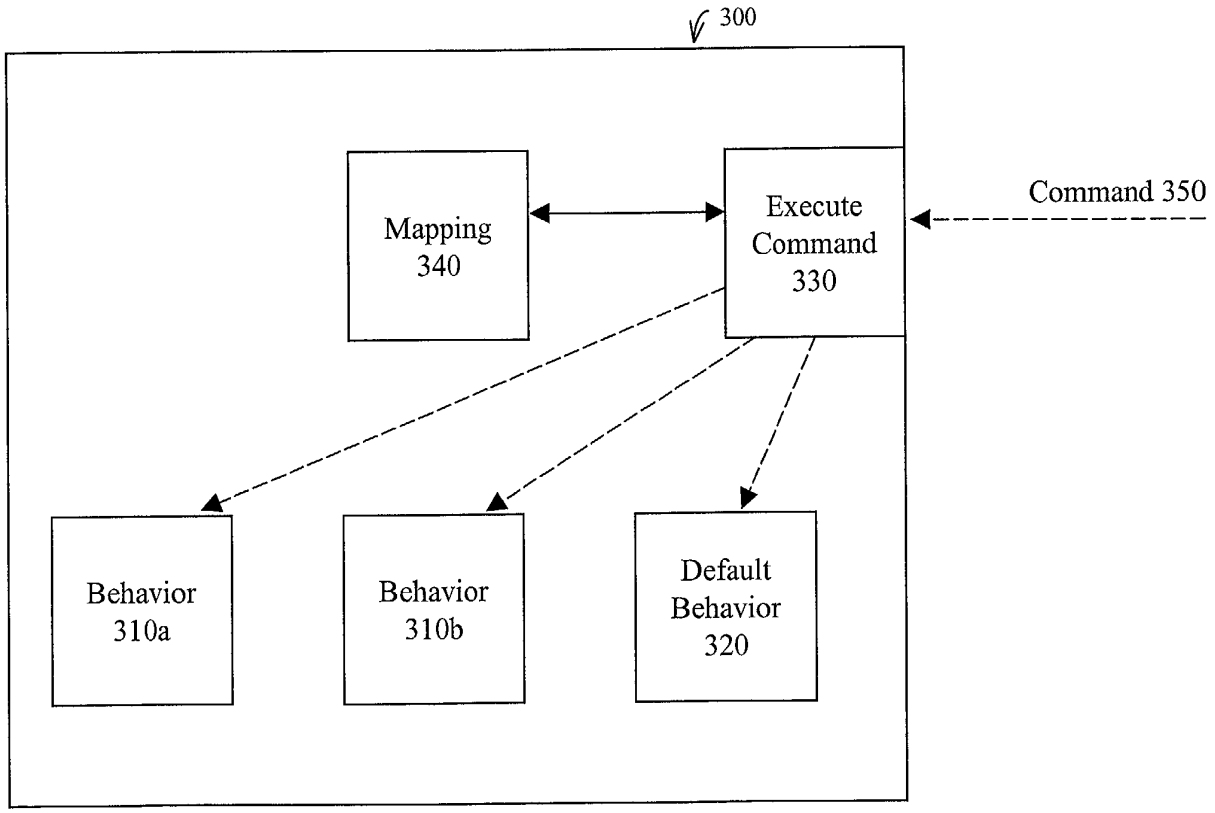


Figure 3


300
Mapping
340
Execute
Command
330
Command 350
Behavior
310a
Behavior
310b
Default
Behavior
320

09227 "E026h260

Figure 4

4a

Cmd	Behavior
Left	Move
Right	Move

4b

Cmd	Behavior
(empty set)	

4c

Cmd	Behavior
Wand Point	Move
Mouse Left	Move

Figure 5

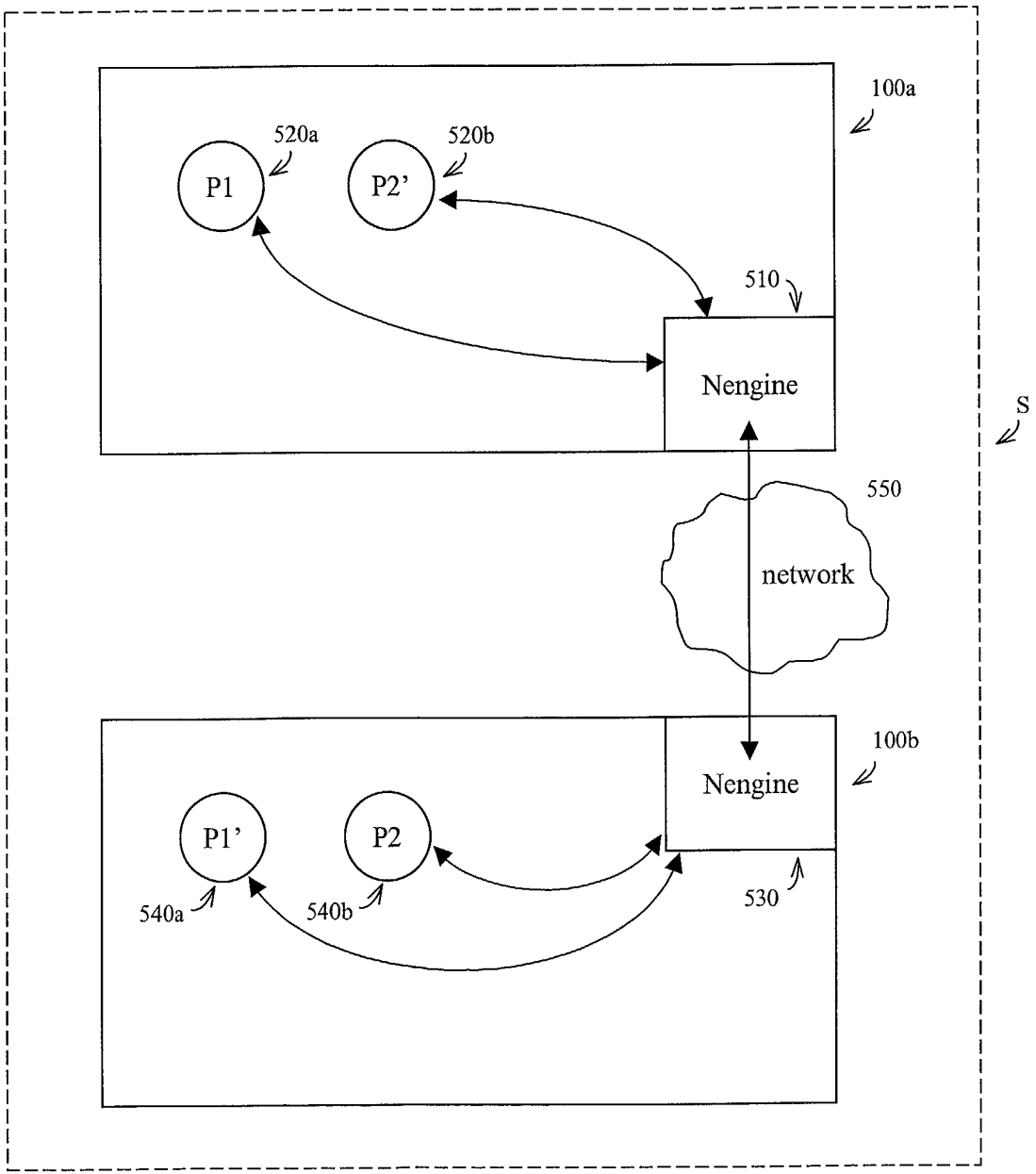

100a
520a
520b
P1
P2'
510
Nengine
S
550
network
100b
Nengine
P1'
P2
540a
540b
530

Figure 5b

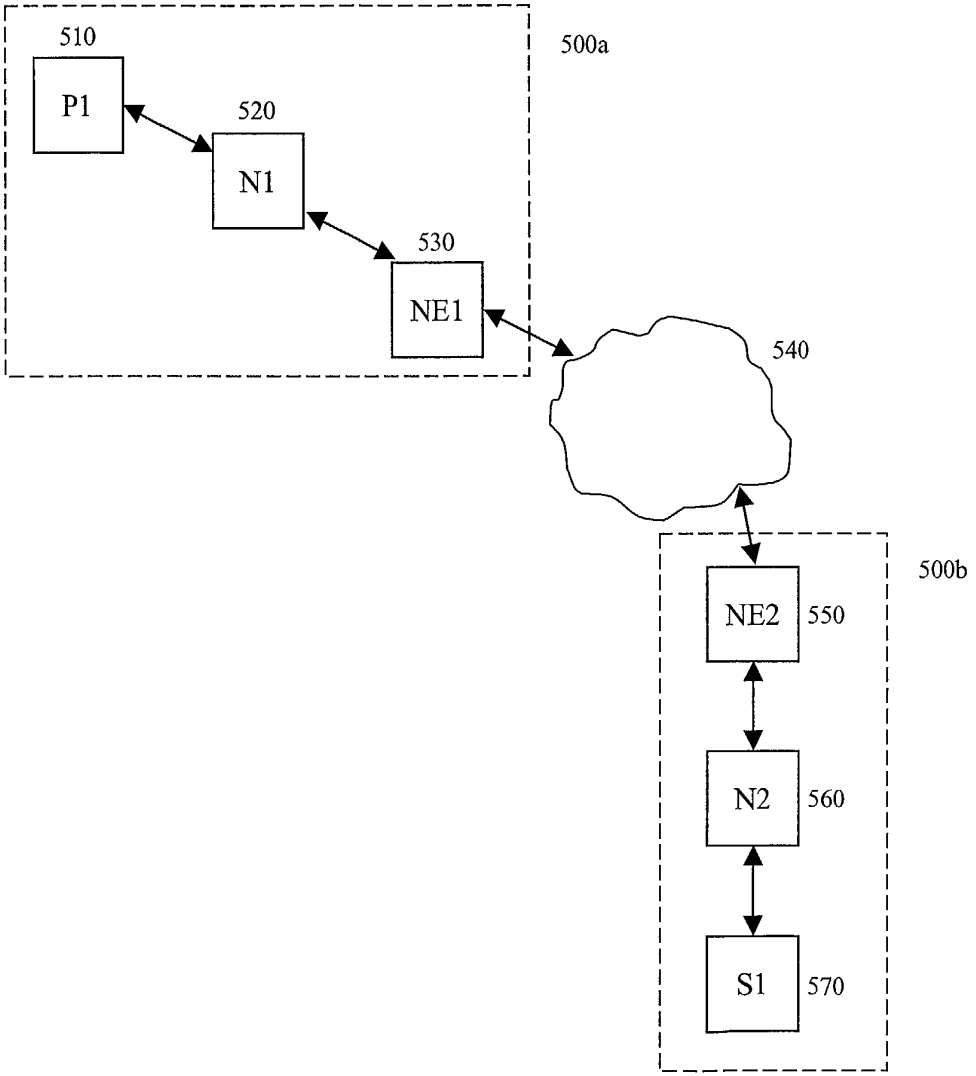


Figure 6

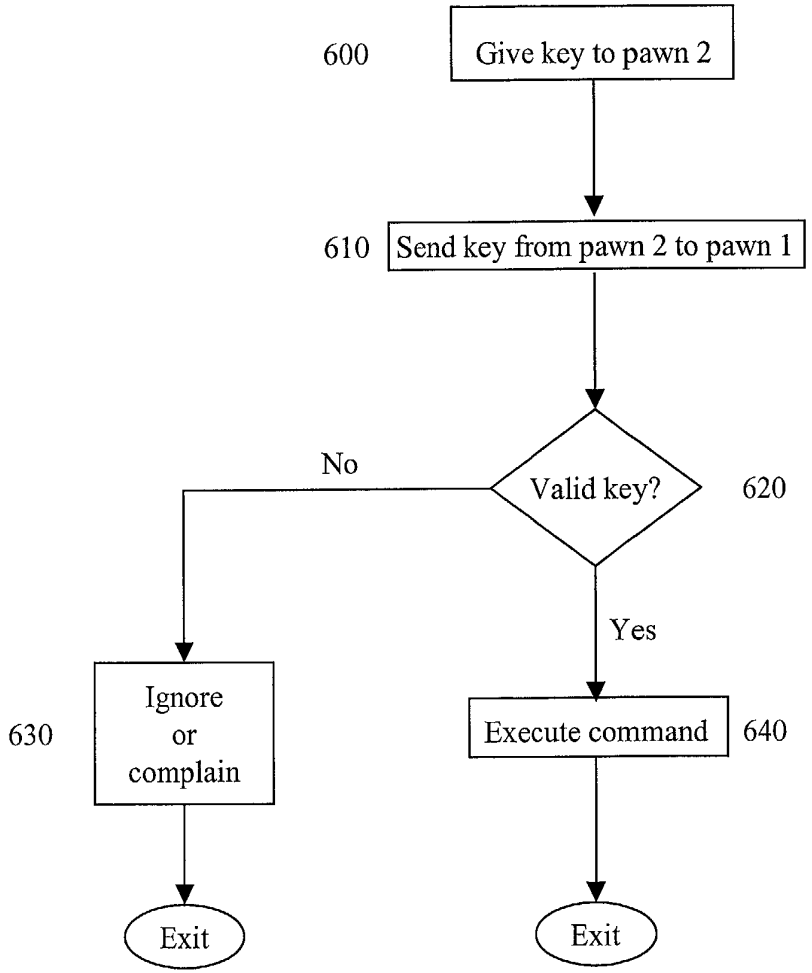

600
Give key to pawn 2
610
Send key from pawn 2 to pawn 1
No
Valid key?
620
Yes
630
Ignore or complain
Execute command
640
Exit
Exit

Figure 7

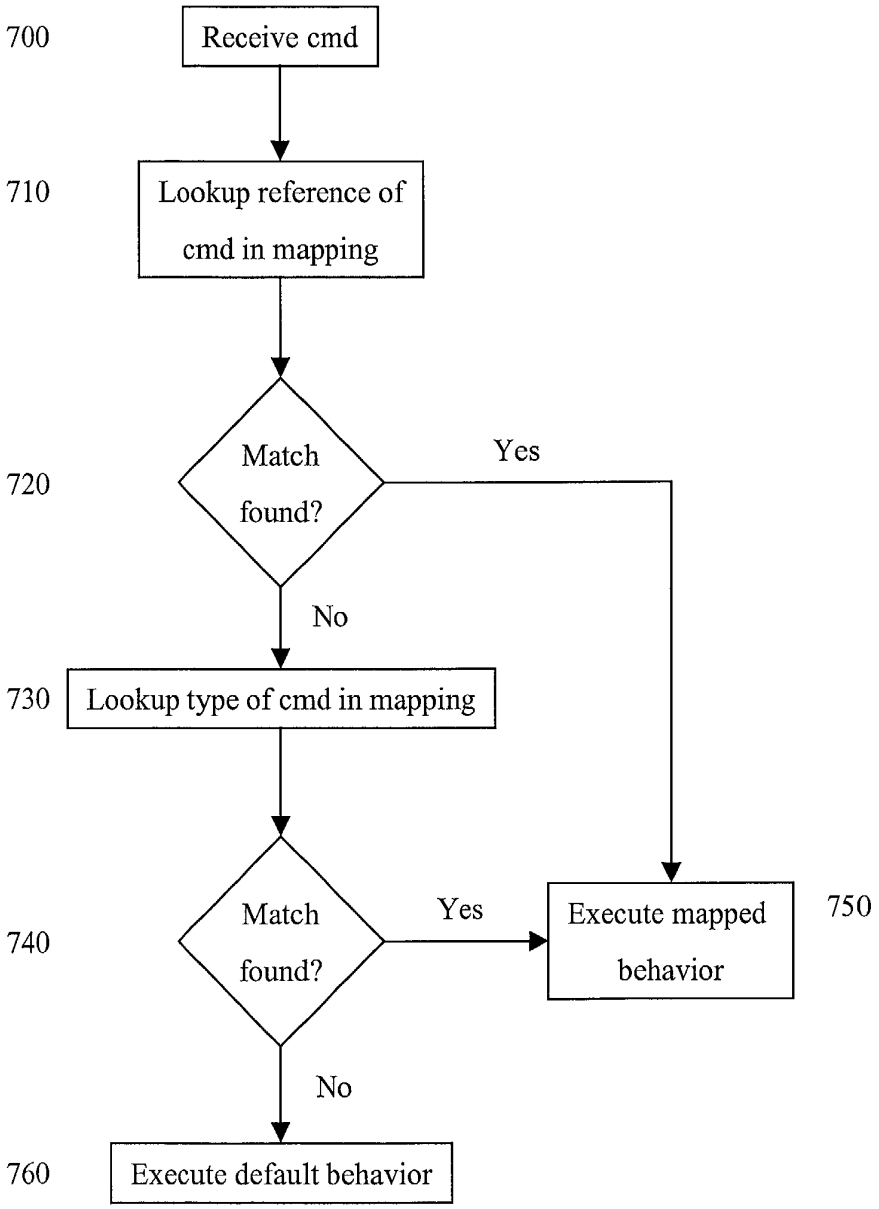
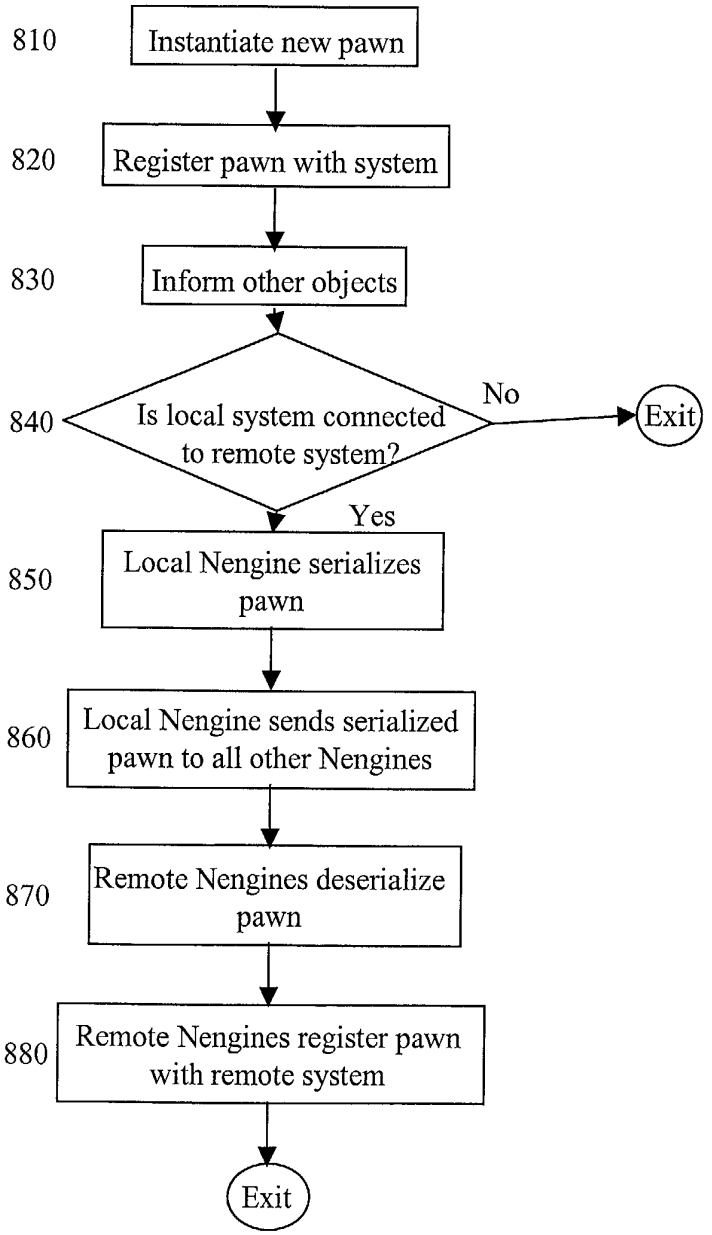

700
Receive cmd
710
Lookup reference of cmd in mapping
720
Match found?
Yes
No
730
Lookup type of cmd in mapping
740
Match found?
Yes
Execute mapped behavior
750
No
760
Execute default behavior

Figure 8


810
Instantiate new pawn
820
Register pawn with system
830
Inform other objects
840
Is local system connected to remote system?
No
Exit
Yes
850
Local Nengine serializes pawn
860
Local Nengine sends serialized pawn to all other Nengines
870
Remote Nengines deserialize pawn
880
Remote Nengines register pawn with remote system
Exit